



# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH)

## BIO ROCK DRILL 220

|                  |                |              |   |
|------------------|----------------|--------------|---|
| Creation date    | 26. April 2018 | Revision no. |   |
| Date of revision | 25. April 2023 | Version      | 2 |

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier**  
substance / mixture  
Number  
Other names of the mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
use of the mixture  
Not recommended use of the mixture
- 1.3. Details of the supplier of the safety data sheet**
- Importer**  
Name or trade name  
Address  
Telephone  
E-mail
- Manufacturer**  
Name or trade name  
Address  
Telephone  
Fax  
E-mail
- Competent person responsible for the safety data sheet**  
Name  
E-mail
- 1.4. Emergency telephone number**  
Technical Helpline NZ: 0800 582 326  
New Zealand National Poisons Centre: 0800 764 766

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

This product has not been classified as hazardous under applicable New Zealand regulations.

#### The most serious adverse physico-chemical effects

Unknown

#### The most serious adverse effects on human health and the environment

Unknown

#### 2.2. Label elements

none

#### 2.3. Other hazards

Hazardous physical chemical effects: Flammable liquid. There is a risk of burning in the case of overheating above the ignition temperature..

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Mixture of substances specified below and non-hazardous additives.

##### Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

none

**BIO ROCK DRILL 220**

|                  |                |              |   |
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**SECTION 4: First aid measures****4.1. Description of first aid measures**

If any health problems are manifested or if in doubt, inform a doctor and show him information from this Safety Data Sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

**Inhalation**

not available

**Skin contact**

not available

**Eye contact**

not available

**Ingestion**

not available

**4.2. Most important symptoms and effects, both acute and delayed****Inhalation**

Possible irritation of airways, cough, headache.

**Skin contact**

Not expected.

**Eye contact**

Not expected.

**Ingestion**

Irritation, nausea.

**4.3. Indication of any immediate medical attention and special treatment needed**

Symptomatic treatment.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist

**Unsuitable extinguishing media**

water - full jet

**5.2. Special hazards arising from the substance or mixture**

Fire produces heavy, black smoke, with potential development of carbon monoxide and dioxide and other toxic gases. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

**5.3. Advice for firefighters**

Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

The mixture is non-flammable. Provide sufficient ventilation. Use gloves in case of prolonged contact. Follow the instructions in Sections 7 and 8.

**6.2. Environmental precautions**

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

**6.3. Methods and material for containment and cleaning up**

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per Section 13. Collected material should be disposed of in accordance with locally valid regulations. Upon an escape of large quantities of the product, inform the Fire Department and the Environmental Department of the Municipal Authority with extended scope of competencies. After removal of the product, wash the contaminated site with plenty of water or another suitable cleaning material. Do not use solvents.

**BIO ROCK DRILL 220**

|                  |                |              |   |
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**6.4. Reference to other sections**

7, 8 and 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in areas where it is not in contact with open fire and other ignition sources. No smoking. Protect against direct sunlight. Use non-sparking tools. Do not inhale gases and vapours. Prevent contact with skin and eyes. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight.

Storage class

12 - Other non-combustible liquids

**The specific requirements or rules relating to the substance/mixture**

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

**7.3. Specific end use(s)**

not available

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

none

**8.2. Exposure controls**

Follow usual measures for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

**Eye and face protection**

Protective goggles or face shield (based on the nature of the work performed).

**Skin protection**

Hand protection: Protective gloves resistant against the product. Observe recommendations of the particular manufacturer of the gloves in the choice of their appropriate thickness, material and permeability. Use barrier creams for skin protection, they should however not be applied once exposure has occurred. Observe other recommendations of the manufacturer. Other protection: Protective antistatic clothing made of natural fibres (cotton) or synthetic fibres resistant against elevated temperatures. Contaminated skin should be washed thoroughly.

**Respiratory protection**

Mask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of toxic substances are exceeded or in a poorly ventilated environment.

**Thermal hazard**

not available

**Restriction of the environment exposure**

Observe usual measures for protection of the environment, see Section 6.2.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Appearance

Physical state

liquid at 20°C

Color

brown

Odour

characteristic

Odour threshold

data not available

pH

data not available

Melting point/freezing point

-30 °C (ČSN EN 3016)

Initial boiling point and boiling range

data not available

Flash point

295 °C (ČSN EN ISO 2592)

Evaporation rate

data not available

Flammability (solid, gas)

data not available

## BIO ROCK DRILL 220

|                  |                |              |   |
|------------------|----------------|--------------|---|
| Creation date    | 26. April 2018 | Revision no. |   |
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Upper/lower flammability or explosive limits

Flammability limits

data not available

Explosive limits

data not available

Vapour pressure

data not available

Vapour density

data not available

Relative density

data not available

Solubility(ies)

solubility in water

data not available

solubility in fats

data not available

Partition coefficient: n-octanol/water

data not available

Auto-ignition temperature

data not available

Decomposition temperature

data not available

Viscosity

data not available

Kinematic viscosity

198 - 242 mm<sup>2</sup>/s at 40°C

Explosive properties

data not available

Oxidising properties

data not available

### 9.2. Other information

Density

0.940 g/cm<sup>3</sup> at 15 °C (ČSN EN ISO 12185)

Auto-ignition temperature

data not available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The mixture is non-flammable

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

The product is stable under normal conditions.

### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents. Thereby a dangerous exothermic reaction will be prevented.

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous products are formed at high temperature and in fire, such as carbon monoxide and carbon dioxide, heavy smoke and nitrogen oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

No toxicological data is available for the mixture.

#### Acute toxicity

Based on available data the classification criteria are not met.

#### Corrosion/skin irritation

Based on available data the classification criteria are not met.

#### Serious eye damage / eye irritation

Based on available data the classification criteria are not met.

#### Respiratory / skin sensitization

Based on available data the classification criteria are not met.

#### Germ cells mutagenicity

Based on available data the classification criteria are not met.

#### Carcinogenicity

Based on available data the classification criteria are not met.

#### Reproductive toxicity

Based on available data the classification criteria are not met.

#### Toxicity for specific target organ - single exposure

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|                  |                |              |   |
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Based on available data the classification criteria are not met.

**Toxicity for specific target organ - repeated exposure**

Based on available data the classification criteria are not met.

**Aspiration hazard**

Based on available data the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1. Toxicity

**Acute toxicity**

The product contains no substances with an effect against active action of microorganisms.

#### 12.2. Persistence and degradability

The product is biodegradable.

#### 12.3. Bioaccumulative potential

Insignificant.

#### 12.4. Mobility in soil

The product is soluble and mobile in water and soil. Contamination of water courses may occur in case of rain.

#### 12.5. Results of PBT and vPvB assessment

The product is not classified as PBT or vPvB.

#### 12.6. Other adverse effects

not available

### SECTION 13: Disposal considerations

Hazard of environmental contamination; remove waste in accordance with local and/or national regulations.

#### 13.1. Waste treatment methods

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to an authorised person for waste removal (specialized company) authorised for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

**Legislation of waste**

Council Directive 75/442/EEC on waste, as last amended. Council Directive 91/689/EEC on hazardous waste, as last amended. Decision 94/3/EC establishing a list of wastes, as last amended.

|                              |   |
|------------------------------|---|
| <b>Code of type of waste</b> | 130207  |
| Type of waste                | readily biodegradable engine, gear and lubricating oils   |
| Subgroup of waste            | waste engine, gear and lubricating oils   |
| Waste group                  | OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19) |

### SECTION 14: Transport information

#### 14.1. UN number

not available

#### 14.2. UN proper shipping name

not available

#### 14.3. Transport hazard class(es)

not available

#### 14.4. Packing group

not available

#### 14.5. Environmental hazards

not available

#### 14.6. Special precautions for user

Reference in Sections 4 to 8.

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not available

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### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

#### 15.2. Chemical safety assessment

not available

### 16. SECTION 16: Other information

#### Other important information about safety of human health

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per Section 1. The user is responsible for adherence to all related health protection regulations.

#### Key to abbreviations and acronyms used in the safety data sheet

|         |   |
|---------|---|
| ADR     | European agreement concerning the international carriage of dangerous goods by road                 |
| BCF     | Bioconcentration Factor   |
| CAS     | Unique Numeric Identifier used in chemistry for chemical substances                                 |
| CLP     | Classification, Labelling and Packaging   |
| DNEL    | Derived no-effect level   |
| EC50    | Concentration of a substance when it is affected 50% of the population                              |
| EINECS  | European Inventory of Existing Commercial Chemical Substances                                       |
| Ems     | Emergency plan  |
| ErC50   | Environmental Release category  |
| ES      | Identification code for each substance listed in EINECS   |
| IATA    | International Air Transport Association   |
| IBC     | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals         |
| IC50    | Concentration causing 50 % blockade   |
| ICAO    | International Civil Aviation Organization   |
| IMDG    | International Maritime Dangerous Goods Transport  |
| LC50    | Lethal concentration of a substance in which it can be expected death of 50% of the population      |
| LD50    | Lethal dose of a substance in which it can be expected death of 50% of the population               |
| LOAEC   | Lowest observed adverse effect concentration  |
| LOAEL   | Lowest observed adverse effect level  |
| Log Kow | Octanol-water partition coefficient   |
| MARPOL  | International Convention for the Prevention of Pollution From Ships                                 |
| MFAG    | First Aid Manual  |
| NOAEC   | No observed adverse effect concentration  |
| NOAEL   | No observed adverse effect level  |
| NOEC    | No observed effect concentration  |
| NOEL    | No observed effect level  |
| OEL     | Occupational Exposure Limits  |
| PBT     | Persistent ,Bioaccumulative and Toxic   |
| PEL     | Permissible Exposure Limit  |
| PNEC    | Predicted no-effect concentration   |
| REACH   | Registration, Evaluation and Restriction of chemicals (EP and Council Regulation (EC) No.1907/2006) |
| RID     | Agreement on the transport of dangerous goods by rail   |
| UN      | Four-digit code reflecting the characteristics of substances or mixtures in transport               |
| UVCB    | Substances of unknown or variable composition, complex reaction products or biological materials    |
| VOC     | Volatile organic compounds  |



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vPvB Very Persistent and very Bioaccumulative

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

not available

### Information about the sources of data used to compile the Safety Data Sheet

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.  
REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.